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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,683	05/22/2004	Johan Ockborn	07589.0176.PCUS00	3047

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EXAMINER

JIMENEZ, MARC QUEMUEL

ART UNIT	PAPER NUMBER
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3726

DATE MAILED: 04/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/709,683	Applicant(s) OCKBORN ET AL.	
	Examiner Marc Jimenez	Art Unit 3726	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 May 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>9/16/04, 5/22/04</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: in paragraph [0038], last line: "Figure 1" should be - - Figure 3 - -.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 1-3, 5-7 and 10-14** are rejected under 35 U.S.C. 102(b) as being anticipated by Dimberg (US1641745).

Dimberg teaches a method for manufacturing a stator or rotor component having at least one blade **2** joined together with at least one ring element **3**, the method comprising: providing a joining material **9** in contact with at least one of the blade **2** and the ring element **3**, the blade **2** and the ring element **3** being arranged in relation to one another to be joined together via a butt joint when heat-treated (page 2, lines 39-40); and conducting the heat-treatment so that the joining material **9** forms a melt that joins the ring element **3** and the blade **2** together upon solidification of the melt **9**.

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Regarding claim 2, the blades **2** are joined with the ring element **3** at a mutual spacing about a periphery of the ring element **3**.

Regarding claim 3, the ring **3** is continuous.

Regarding claim 5, the ring element **3** forms an outer ring and the blades **2** are joined together with the outer ring **3** in such a way that the blades **2** project inward in the radial direction from the ring element **3**.

Regarding claim 6, the ring **4** could be considered the ring element. The ring element **4** therefore forms an inner ring and the blades **2** are joined together with the inner ring **4** in such a way that the blades **2** project outward in the radial direction from the ring element **4**.

Regarding claim 7, the ring element **3** is joined with an annular member further comprising a plurality of blades **2** projecting radially, a first of the ring element **3** and annular member is designed with a radially inner surface that is at least partially angled (0 degrees and 90 degrees are angles) in relation to a central axis thereof and a radially outer surface of a second of the ring element **3** and the annular member has essentially corresponding angled shape, and the ring element and the annular member are connected via relative axial movement therebetween when the angled surfaces are brought into mutual contact.

Regarding claims 10 and 12, the joining material **9** is provided in the form of a continuous layer.

Regarding claim 11, the joining material **9** is applied to a surface of the ring element before the ring element and blades are joined together (page 2, lines 28-35).

Regarding claim 13, the joining material **9** is considered a film coating.

Regarding claim 14, the pressure is applied by clamping (page 2, lines 34-39).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claim 4** is rejected under 35 U.S.C. 103(a) as being unpatentable over Dimberg (US1641745) in view of Doran (US2347034).

Dimberg teaches the invention cited above with the exception of the ring elements joined together in a peripheral direction thereby forming a continuous ring.

Doran teaches ring elements **15,16** joined together in a peripheral direction thereby forming a continuous ring.

It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Dimberg with ring elements joined together in a peripheral direction thereby forming a continuous ring, in light of the teachings of Doran, in order to provide a ring portions that can easily be removed or repaired in sections.

6. **Claim 8** is rejected under 35 U.S.C. 103(a) as being unpatentable over Dimberg in view of Gilson (US1286283).

Dimberg teaches the invention cited above with the exception of the angle being conically shaped.

Gilson teaches that it is known to create angled surfaces that are conically shaped (figure 6.).

Therefore, it would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Dimberg with a conically shaped angle, in light of the teachings of Gilson, in order to provide a blade configuration having the desired air thrust produced due to the configuration of the blades.

7. **Claim 9** is rejected under 35 U.S.C. 103(a) as being unpatentable over Dimberg in view of Gilson as applied to claim 8 above, and further in view of Schenk (US2633776).

Dimberg/Gilson teach the invention cited above with the exception of the blades being milled out from a basic piece.

Schenk teaches milling from a basic piece (figure 1).

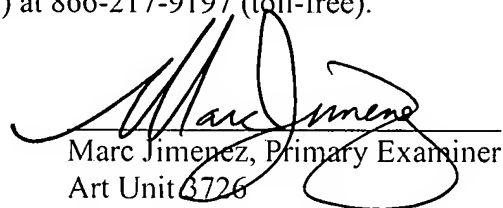
It would have been obvious to one of ordinary skill in the art, at the time of the invention, to have provided the invention of Dimberg/Gilson with milling from a basic piece, in light of the teachings of Schenk, in order to create accurately shaped blades.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number is (571) 272-4530. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Nguyen can be reached on (571) 272-4491. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Marc Jimenez, Primary Examiner
Art Unit 3726

MJ
3-28-06